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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,821	10/31/2001	Scott Patrick Campbell	08305/110001/PBIT-0141.00	4707
7590	06/16/2004			EXAMINER ZARNEKE, DAVID A
Micron Technology, Inc. c/o Tom D' Amico Dickstein, Shapiro, Moran & Oshinsky 2101 L Street NW Washington,, DC 20037-1526			ART UNIT 2827	PAPER NUMBER
DATE MAILED: 06/16/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application N .	Applicant(s)
	10/003,821	CAMPBELL, SCOTT PATRICK
	Examiner	Art Unit
	David A. Zarneke	2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 14 April 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-59 is/are pending in the application.
 4a) Of the above claim(s) 8 and 18-59 is/are withdrawn from consideration.
 5) Claim(s) 11, 12 is/are allowed.
 6) Claim(s) 1-10 and 13-17 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Election/Restrictions

Applicant's election of claims 1-17 in the reply filed on 4/14/04 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The examiner removes claim 8 from consideration because it contains subject matter not elected. Namely, the 2 indented areas read upon the non-elected groups having multiple (2 or 3) apertures.

Claims 8 and 18-59 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group and/or species, there being no allowable generic or linking claim. Election was made **without** traverse.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-7, 9 and 10 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Tu et al., US Patent 6,696,738 (figures).

Regarding claim 3, Tu teaches the integrated circuit includes an image sensor (44), and a central portion (60) of said frame defines a portion where image light can enter said image sensor.

With respect to claims 4-6, Tu teaches the use of a glass (3, 4+) clear element (46) that seals the IC from the environment.

As to claim 7, Tu teaches the use of a lid portion (46) on a top of the die and glue layer (47) that acts as a backing portion on a rear portion of the die.

In re claims 9 and 10, Tu teaches the lid as being sunk into the frame (54) thereby meeting the limitations of an element which protects said sealing element against damage that includes an extending part which extends above a top of said sealing element. Wherein the element is the sunken portion of the top surface of the frame.

Claims 13-17 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Tu et al., US Patent 6,696,738 (figures).

Regarding claim 14, Tu teaches an element (46 & 47) which seals an inside of said package as compared with an outside.

With respect to claim 15, Tu teaches the sealing element is transparent (3, 4+).

As to claim 16, Tu teaches said element is formed of glass (3, 4+), and is hermetically sealed around an area of said inner perimeter (figures).

In re claim 17, Tu teaches the sealing element further comprises a backing area (47), hermetically sealing a bottom portion, and wherein said metal contact is disposed around said bottom portion (figures).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tu et al., US Patent 6,696,738, as applied to claim 1 above.

Regarding claim 2, while Tu only states that the connection portion (50 & 56) are exposed to the outside to from signal output terminals electrically connected to a PCB, it would have been obvious to one of ordinary skill in the art at the time of the invention to form the electrical connection using solder because the use of solder to connect two substrates is conventionally known in the art (MPEP 2144.07).

Allowable Subject Matter

Claim 11, and therefore claim 12, is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: prior art could not be located that taught an upper portion on said package, having surfaces adapted to accept a lens therein.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to David A. Zarneke at (571)-272-1937. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571)-272-1957. The fax phone number is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David A. Zarneke
Primary Examiner
June 10, 2004

